REMARKS/ARGUMENTS

Reconsideration of the application is requested.

Claims 13 - 38 are now in the application. Claims 1 - 12 have been canceled.

Claims 13, 15, 18, 19, 21, 24, and 25 have been amended.

More specifically, the claims have been amended in response to the Examiner's

rejection and objections detailed on page 3 of the Office action. The Examiner's

apparent suggestions have been adopted and the claims have been amended in an

effort to satisfy the requirements of 35 U.S.C. § 112, first and second paragraphs.

Should the Examiner find any further objectionable items, counsel would appreciate

a telephone call during which the matter may be resolved.

In addition, the independent claims have been amended in order to clearly point out

that the "supporting structure" of the claims is indeed a natural bone (human/animal

origin), i.e., a spongy bone of human or animal origin. It is not a synthetically

produced structure or an "engineered regenerative biostructure."

We now turn to the art rejection, in which claims 13, 14 and 22 have been rejected

as being anticipated by Beam et al. (US 2003/0065400, hereinafter "Beam") under

35 U.S.C. § 102. We respectfully traverse on the basis of the amended claims.

Beam provides for an "engineered regenerative biostructure." It is a synthetically

produced structure (i.e., "engineered") and, as such, it is not a bone of human or

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animal origin (claims 13, 22) or a spongy bone of human or animal origin (claim 14).

Beam cannot anticipate claim 13, as amended.

Even though the demineralized bone matrix according to paragraphs 0041 and

0046 of Beam is a demineralized bone matrix and thus a body tolerable material, it

is a synthetic matrix produced from bone particles and not a spongy bone of human

or animal origin, even though it is demineralized.

At this point it is crucial to emphasize that all claims of the application are limited to

the use of bone or human/animal origin - not "engineered or processed bone

materials."

The above-mentioned clear limitation of the implant material to "not engineered",

namely to materials from natural bones, eliminates US 4,553,272 to Mears as a

relevant reference against claims 13 and 15.

The primarily important difference between Beam and the claimed invention

consists not so much in the entirely different form, per se, of the channels in the

implant body as defined by the invention, but in that the implant body in accordance

with the invention is produced directly from bones of human or animal origin and

thus without comminuting to small particles, without bonding agents and without

pressing the particles into a specific implant shape.

It becomes entirely clear from the above explanations that the primarily essential

difference between the invention and the materials mentioned in Beam does not lie

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so much in the shaping process of the infusion channels and also not in the convex

surface, thus convex top or cover surface, of the implant body but in the basic

material of this implant body, which, according to the invention, is formed directly by

a piece of a natural bone.

And this fact forms the basis of the instant invention. The claimed invention is

clearly not shown or suggested by any of the prior art of record.

We now turn to the obviousness rejection in which claims 13, 14, and 16-23 have

been rejected as being obvious over Beam and claims 13-15, 22, 24 have been

rejected as being obvious over Beam and Mears under 35 U.S.C. § 103.

We respectfully traverse the Examiner's holding that the invention would have been

obvious over either Beam or the combined teachings of Beam and Mears. The

claimed invention as a whole would not have been prima facie obvious to one of

ordinary skill in the art at the time the invention was made.

With regard to the Examiner's explanations, we do not disagree that implant bodies

provided for similar purposes of implantation into bones or as a bone replacement

and an impregnation with cell-solutions are indeed described in US 2003/0065400

to Beam. However, the material of the implant body disclosed therein which comes

closest to the invention – even if it originally stems from a natural starting material

from bones - is manmade and therefore has a uniform porous structure, which

absolutely cannot be compared with the natural structure of a natural bone.

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Beam describes precisely that the implant material he uses is not at all a natural

and therefore spongy human or animal bone material per se that retains its natural

structure. Rather, the bones are ground in accordance with Beam and, while

providing blank spaces between the bone particles obtained therefrom, they are

shaped on the outside such that they may be implanted, for example, in a void of a

bone

bone.

Therefore, in accordance with Beam, a porous artificial implant body is produced

that is also accessible to an impregnation and has particles, connected to one

another, from bone material.

In accordance with Beam, an implant body is produced and used, which has an

entirely different inner structure than the bone into which the implant body is

implanted. The material produced in accordance with Beam has absolutely nothing

in common with a natural bone matrix.

It is precisely this completely different nature of the structure of the implant body of

Beam, which, as found, ultimately leads to difficulties for quite understandable

reasons when growing into a bone to be supplemented, since there is no structural

similarity at all between the natural bone part to be replaced and the implant body

material of Beam obtained by synthetic ways.

In contrast, the instant invention makes provision for a genuine bone particle

material as an implant body - thus (material) not previously ground and then

pressed by a shaping process – naturally free from irritating substances contained

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therein, such as fat, cells and the like. The bone particle material, however, are

bone pieces, which continue retaining their natural bone structure in an unmodified

way, are formed according to the shape of the bone piece to be replaced and are

impregnated with a cartilage cell suspension.

Compared to the implant bodies of Beam, these new implant bodies have the

essential advantage that the natural bone structure is entirely present therein, thus

has the greatest similarity in structure as possible, and therefore also affinity for

bone structure of the natural bone of the patient to be replaced with the new natural

bone implant body.

This greatly facilitates the in-growth of the natural implant body as defined by the

invention compared to the in-growth of a synthetic implant body.

In summary, none of the references, whether taken alone or in any combination,

either show or suggest the features of claims 13 and 25. Those claims are.

therefore, patentable over the art and since all of the dependent claims are

ultimately dependent thereon, they are patentable as well.

In view of the foregoing, reconsideration and the allowance of the claims are

solicited.

Petition for extension is herewith made. The extension fee of \$ 555.00 for

response within three months subsequent to the shortened statutory period of

pursuant to Section 1.136(a) and in accordance with Section 1.17 is enclosed

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herewith. Please charge any other fees which might be due with respect to

Sections 1.16 and 1.17 to the Deposit Account of Lerner Greenberg Stemer LLP,

No. 12-1099.

Respectfully submitted,

/Werner H. Stemer/ Werner H. Stemer (Reg. No. 34,956)

WHS/lq

October 23, 2008

Lerner Greenberg Stemer LLP P.O. Box 2480 Hollywood, Florida 33022-2480 Tel.: 954-925-1100

Fax: 954-925-1100